

Guest editorial: 15th READ conference & 16th EWADE workshop

Dear reader

It is our pleasure to present the special issue of the *Aircraft Engineering and Aerospace Technology Journal*, dedicated to the exceptional event that was joined *READ & EWADE & ASC conference*. The conference has been hosted by Rzeszów University of Technology on 8–10 June 2022.

The READ conference – Research and Education in Aircraft Design (former name: RRDPAE – Recent Research and Design Progress in Aeronautical Engineering and its Influence on Education) was established in 1994 by Prof. Zdobysław Goraj who was the chair of the conference through 20 years. The seminar has been organized every two years as a general forum for exchange of information about progress in aerospace engineering research. The unique character of the seminar is given by its focus on aircraft engineering education and inclusion of juried student sessions.

Over the years, the seminar has travelled from Warsaw (Poland), through Vilnius (Lithuania), Riga (Latvia) to Tallinn (Estonia), Brno (Czech Republic), then to Warsaw, Brno, Vilnius, Warsaw, Brno and in 2020 for the first time to Rzeszów. Due to the COVID-19 pandemic, this seminar could held entirely in online form. In 2022, the Rzeszów University of Technology renewed the proposal to organize the conference, this time in the extended formula with the ASC (Aviation & Space Congress) and in the hybrid form (Figure 1). ASC (the 3rd edition), being a more local event organized periodically every three years, nevertheless brought added value by increasing the number of participants and expanding the presentations to more industrially related topics. The Congress gave the opportunity to exchange experiences and establish even closer cooperation between scientific units, the broadly understood aviation and space industry foreign units, and the young generation of aviation and space associated with student research clubs.

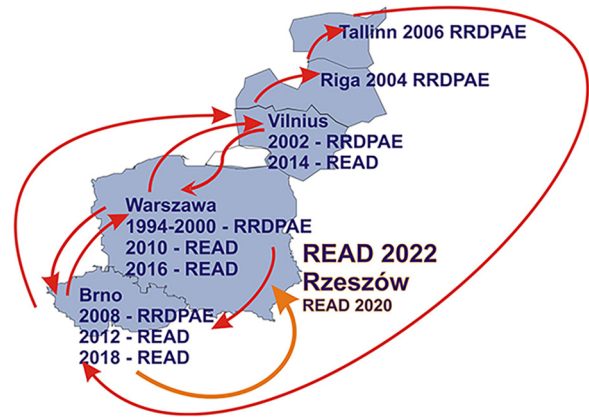
European Workshop on Aircraft Design Education (EWADE), which is the education activity of the Technical Committee Aircraft Design under Council of European Aerospace Societies (CEAS) has been started in 1994 in Madrid. Next, the workshops were organized every two years in Berlin, Bristol, Turin, Linköping, Brno, Toulouse, Hamburg, Samara, Seville and Naples. The next workshop was held in Linköping together with CEAS Air and Space Conference and after that EWADE workshops travelled together with CEAS conferences through Delft and Bucharest. In 2018 EWADE joined READ conference and

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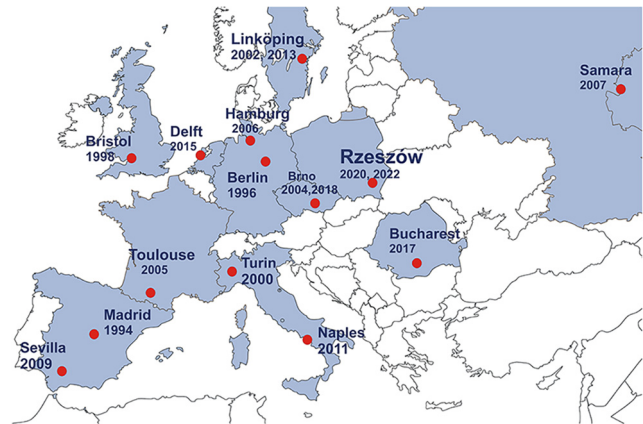
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Figure 1 RRDPAE-READ – travelling seminar



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Figure 2 EWADE – travelling workshops



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arrived at Brno for the second time. In 2020, the second joined READ/EWADE conference was organized in Rzeszów. As the READ conference was re-organized in Rzeszów, EWADE joined again, and the third READ/EWADE became a fact (Figure 2).

The combined READ&EWADE&ASC event strengthened the conference in all areas: education, research and industry and allowed to meet groups of researchers from different parts of Europe. More than 80 participants from 10 countries have 64 presentations. Furthermore, distinguished invited speakers updated the delegates on the newest opportunities for carrying out aeronautics-related research, available research infrastructure and novel research results.

Finally, the following 12 conference papers have been selected for publication in this peer-reviewed special issue:

- 1 Šplichal M., Červenka M., Juracka, J., “Engine Condition Monitoring on Small Single Engine Turboprop.”
- 2 Topczewski S., Bibik P., “LQR and LQG Control of the Helicopter During Landing on the Ship Deck.”
- 3 Schneider J., Strohmayer A., “Development Process for Preliminary Aircraft Sizing Methods with Regards to New Technologies.”

- 4 Rogalski T., Rzucidło P., Noga S., Nowak D., “The Use of Vision System to Determine Lateral Deviation from Landing Trajectory.”
- 5 Pelin C. E., Axenie A. R., Gaz A., Pelin G., Stefan A., Moisei C., Arnau Cubillo A., “Design, Manufacturing and Testing of Pull-Out and Shear-Out Insert Allowable for Sandwich Applications.”
- 6 Lichoń D., Majka A., Lis T., “RPAS Performance Model for Fast-time Simulation Research on Integration in Non-Segregated Airspace.”
- 7 Liberacki A., Dziugiel B., Woroniecka P., Ginter P., Stanczyk A., Mazur A., Ten Thije J. T., Tojal Castro M., “Key Factors in Reducing Cost of UAM Implementation.”
- 8 Kwiek A., Figat M., “Analysis of Longitudinal Dynamic Stability of Tandem Wing Aircraft.”
- 9 Korkosz M., Noga S., Rogalski T., “Analysis of The Mechanical Limitations of the Selected High-Speed Electric Motor.”
- 10 Kopecki G., Banicki M., “A Proposal of AHRS Yaw Angle Correction with The Use of Roll Angle.”
- 11 Frąckowiak R., Goraj Z., “Animals Detection Using Thermal Imaging and a UAV.”
- 12 Dziugiel B., Mazur A., Liberacki A., Ginter P., Utracka A., Wyka S., Di Vito, V., Menichino A., “Multimodal 3D transport system implementation barriers in populated municipalities.”

The articles deal with different solutions for future aerospace challenges in the areas of novel configuration, aerodynamics, design methods, multidisciplinary optimization, UAV and stress analysis.

With great pleasure, the author would like to thank Prof. Tomasz Rogalski for his big effort in organization, hosting and co-chairing of the conference. The author would also like to thank all authors for writing such excellent technical papers and the reviewers for their insightful critique and suggestions, which contributed directly to improving the technical content

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